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 from the Banks to pay large dividends or
 to sell bonds to amount without regard
 to whom they pay in so doing.

SCIENTIFIC MISCELLANY.

following alloys—which may be used
 or brazing iron or blowpipes for setting
 the models commonly used in the arts.
 is recommended for the ready soldering
 of iron, and is cheaper than any material
 employed, while they are said to give a
 metal without injury to the metal by
 of 250° C.; 1. unalloyed pure tin,
 point 232° C.; 2. the 100% lead, 320
 3. 50% lead, 320° C.; 4. 50% tin, 320° C.

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plant 280° to 320°, 4 tin; 1000, copper 10, melting point 350° to 450°; 5 tin 1000, melting point 350° to 450°; 6 tin 1000, melting point 350° to 450°; 7 tin 1000, melting point 350° to 450°. The first three soldiers are aluminum and are adapted for ornamental objects. The fourth and fifth are harder than the first two and may be used for structural purposes. Various articles of aluminum for armor, guns, etc., are now used. The last alloy may be any tint of yellow by varying the percentage of copper, making it suitable for ornaments.

The effects of continuous rainfall upon plants was studied by Prof. J. Wiesner, and reported to the Vienna Academy. Both European and American plants were exposed to an artificial rain which was found that some of them, such as the apple tree, larch, laurel, chestnut,

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There, classed as *embrophile*, can stand three or months. The most resistant plants, however, are those that grow naturally in wet places, and these are the *embrophiles*. *Embrophile*, those that cannot be usually killed, and these that are both *embrophiles* and *hygrophytes* are extremely sensitive to rain. They grow in power of resisting moisture as the *embrophiles*.

French reviews of progress in 1890, P. appears, it appears, probably that Electricity came out of the period of great disaster and inventions, as last year brought out of major importance. The great problems of the world are to be solved and the great problems of the world are now in a period of preliminary and of improvement.

British report of centenarians who lived in the last year includes 33 persons, the

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the race of life to dispense with self, it would appear that they must to a great extent lose this life by respect to physical and mental exertion. It is a small, large factor for the inevitable necessity of labor, even practically in some cases sanctioned as a restraint of energy, provided some of the time is conserved by the individual to be able to conserve the vital force. The life thus entirely consumed as orderly—location, comfort, even enjoyment continuing till, as it grows old, it ceases a timely and final repose in the days of ages.

There are no essential glands of copper at Pembroke, and Pembroke, being, was constructed in the nature of a lecture room, and will hold a dozen persons or more. The consultations are held on its interior, and it relates on its

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strong and elastic, and a single female at breeding season, has spun nearly two miles of web. The female spider may attain a length of six inches, although the male scarcely exceeds an inch.

Millin company proposes to offer the public verpase by tricycles in place of cabs. A verpase accompanies each tricycle, and it is expected that the passenger will be satisfied as on the speed of the ordinary cab horse.

The cultivation of rice, the grass-cloth plant (ramie), seems to be of considerable importance in India, a company having acquired the hundred of acres of land near Calcutta for the purpose of growing and manufacturing ramie cloth in which the British Government has ordered to supply roots at a nominal cost, and announce that the masonry stock would be easily increased enormously. Rice

yield five crops a year in some places. Its use is remarkable for its fineness, length, lustre, strength, lightness, durability, and resistance to decay. The fibres are already made into imitation silk fabrics in Europe. It is superior to flax for cordage and sail cloth, in use with cotton, or wool, or rubber, and is being tried by the East India Company for paper for notes. Article 14, which describes the extraction of the fibres has been translated at Belfast.

Carbon disulphide, a volatile, colourless liquid, discovered about a century ago, and now of great importance in the arts, has been the only compound of carbon and sulphur containing a known number of carbon atoms. Professor P. G. Berthel, of Bonn, has now announced a new substance, which he has named "Pentacarbon disulphide." This molecule contains three atoms of carbon.

